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USSN: 09/770,342

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A guide wire ~~comprising~~ consisting essentially of a core wire having distal, medial and proximal segments, the core wire substantially comprising a non-metallic, non-braided, non-woven, material.
2. (Original) A guide wire according to claim 1 wherein the core wire distal segment has a diameter which is less than that of the core wire medial and proximal segments.
3. (Original) A guide wire according to claim 1 wherein the diameters of the core wire distal, medial, and proximal segments are all substantially the same.
4. (Previously Presented) A guide wire according to claim 1 wherein the core wire has a polymeric coating thereon which covers substantially the entire length of the core wire.
5. (Currently Amended) A guide wire according to claim 1 wherein the core wire has a tapered segment between the medialmedial segment and the distal segment.
6. (Original) A guide wire according to claim 1 wherein the core wire further comprises a taper which couples the medial segment and the distal segment and wherein substantially the entire core wire is covered with a polymeric material.
7. (Original) A guide wire according to claim 1 wherein the core wire comprises a polymeric material.
8. (Original) A guide wire according to claim 1 wherein the core wire comprises a polymeric material and the core wire is substantially completely covered with a second polymeric material.
9. (Original) A guide wire according to claim 1 wherein the distal segment of the core wire has a diameter which is less than that of the medial segment.
10. (Currently Amended) A guide wire comprising a core wire, the core wire having coupled proximal, medial, and distal segments, the core wire substantially completely ~~comprising~~ consisting essentially of non-woven, non-braided a polymeric material.

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11. (Original) A guide wire according to claim 10 wherein the core wire is coated with a second polymeric material.
12. (Original) A guide wire according to claim 10 wherein the core wire comprises carbon fiber.
13. (Original) A guide wire according to claim 10 wherein the core wire comprises polyetheretherketone.
14. (Previously Presented) A guide wire according to claim 10 wherein the core wire is coated with PEBAX polyetherimide.
15. (Previously Presented) A guide wire according to claim 10 wherein the core wire comprises polyetheretherketone, and the core wire is coated with polyetherimide.
16. (Original) A guide wire according to claim 15 wherein the core wire distal segment is more flexible than either of the medial segment or the proximal segment.
17. (Original) A guide wire according to claim 15 wherein the core wire distal segment is coupled to the core wire medial segment through a tapered segment and the distal segment has a diameter which is less than that of the medial segment.
18. (Currently Amended) A guide wire according to claim ~~10~~15 wherein the polyetherimide coating has a hydrophilic coating thereover.
19. (Currently Amended) A guide wire ~~comprising~~ consisting essentially of a core wire having coupled distal, medial, and proximal segments, the core wire comprising multiple, helically-wound, non-woven, non-braided, non-metallic fibers and a binder resin, the binder resin being uniformly dispersed between the fibers so as to fill any void space therebetween.
20. (Original) A guide wire according to claim 19 which further comprises a coil wire disposed about the distal segment.
21. (Original) A guide wire according to claim 19 where the non-metallic fibers comprise carbon and the binder resin comprises a vinyl ester.
22. Canceled.
23. Canceled.
24. Canceled.

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25. (New) A guide wire comprising a core wire, the core wire having coupled proximal, medial and distal segments, the core wire being helically wound fibers, the fibers consisting essentially of non-woven, non-braided polymeric material.
26. (New) A guide wire according to Claim 25 wherein helically wound core wire has at least 10 helical turns per foot.
27. (New) A guide wire according to Claim 25 wherein the core wire comprises fibers bound together by means of a binder.
28. (New) A guide wire according to Claim 25 wherein the fibers are carbon fibers.
29. (New) A guide wire according to Claims 25 wherein the helically wound fibers are wound in one direction.